

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012020\
 Data File : VN059793.D
 Acq On : 20 Jan 2020 17:40
 Operator : JC/MD
 Sample : PB126173ZHE#13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 21 01:19:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	206661	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	303975	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	268893	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	111347	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	105689	46.05	ug/l	0.00
Spiked Amount						
			Recovery	=	92.10%	
35) Dibromofluoromethane	7.57	113	92621	51.09	ug/l	0.00
Spiked Amount						
			Recovery	=	102.18%	
50) Toluene-d8	10.08	98	356888	50.81	ug/l	0.00
Spiked Amount						
			Recovery	=	101.62%	
62) 4-Bromofluorobenzene	12.40	95	119796	47.31	ug/l	0.00
Spiked Amount						
			Recovery	=	94.62%	

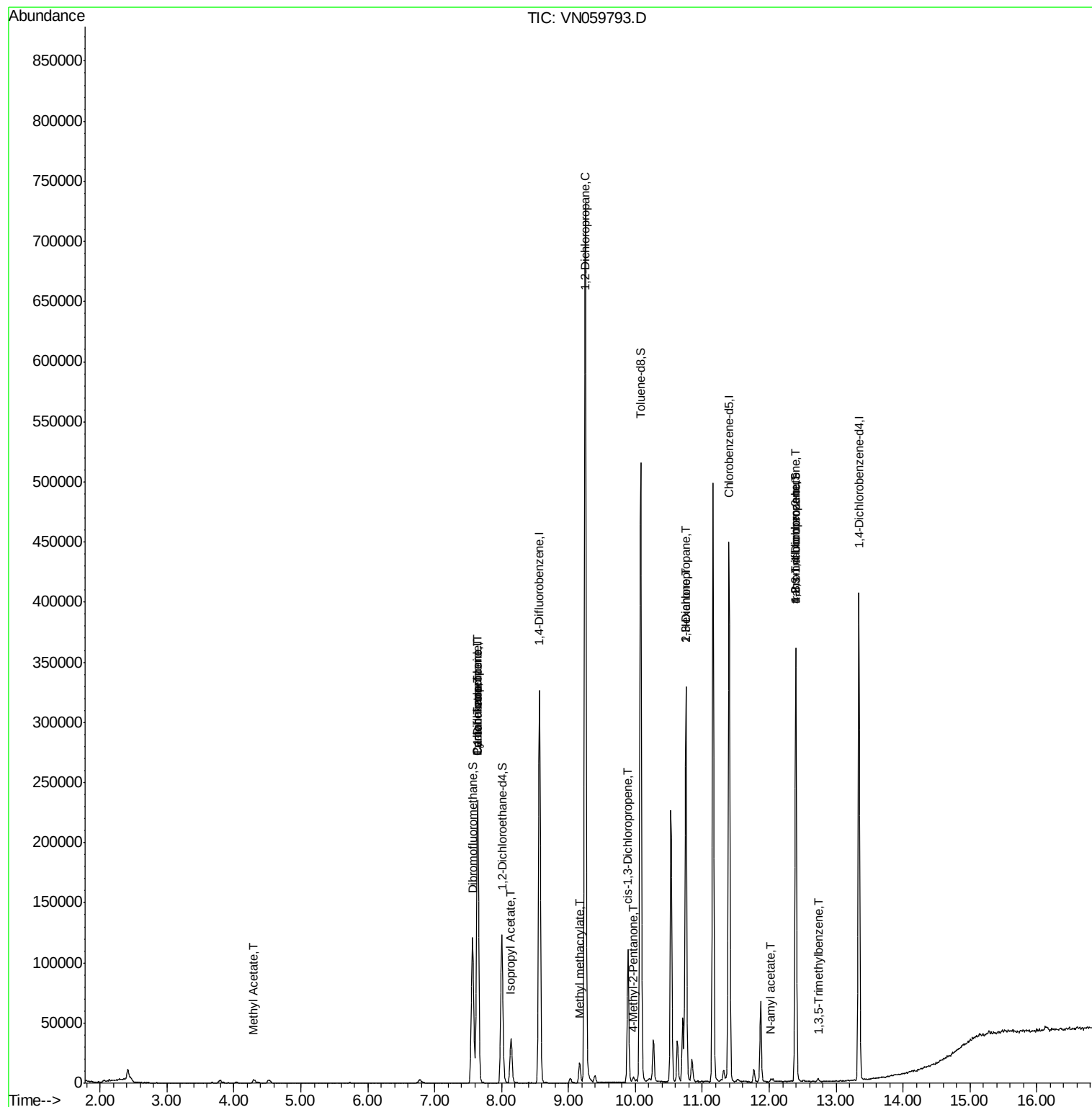
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	4141	Below Cal		91
18) Methyl Acetate	4.29	43	5248	1.958	ug/l	99
20) Methylene Chloride	4.52	84	2266	Below Cal	#	81
31) Cyclohexane	7.64	56	3818	1.124	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13815	5.219	ug/l #	51
38) Carbon Tetrachloride	7.64	117	18679	6.487	ug/l #	16
43) Isopropyl Acetate	8.14	43	44392	10.395	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	793	0.406	ug/l #	44
48) Methyl methacrylate	9.16	41	2296	1.202	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2650	1.073	ug/l	99
54) cis-1,3-Dichloropropene	9.89	75	21107	6.469	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	3323	1.060	ug/l #	42
59) 2-Hexanone	10.75	43	44998	24.743	ug/l #	55
74) N-amyl acetate	12.02	43	2297	0.725	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	60500	32.286	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	1966	0.286	ug/l	88
81) trans-1,4-Dichloro-2-buten	12.40	75	60500	69.335	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.34	75	132	Below Cal	#	6

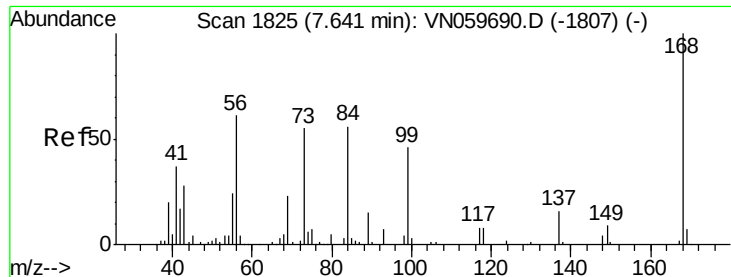
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jan 18 03:09:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN059793.D

Acq: 20 Jan 2020 17:40

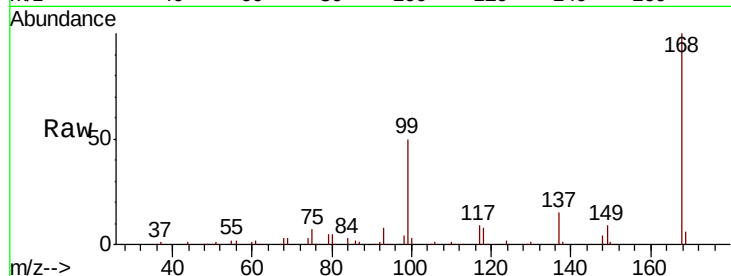
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 206661

Ion Ratio Lower Upper

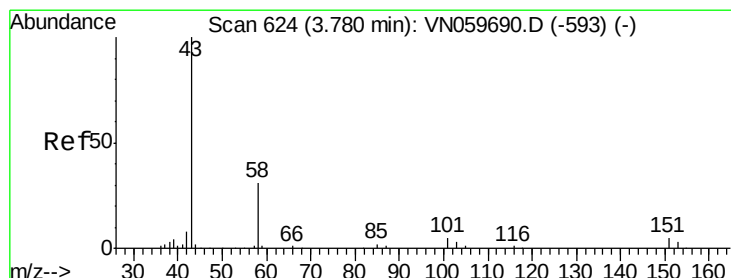
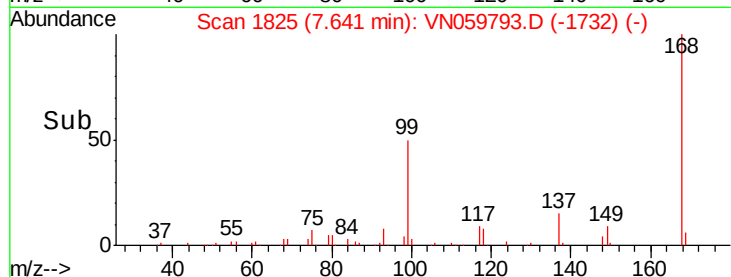
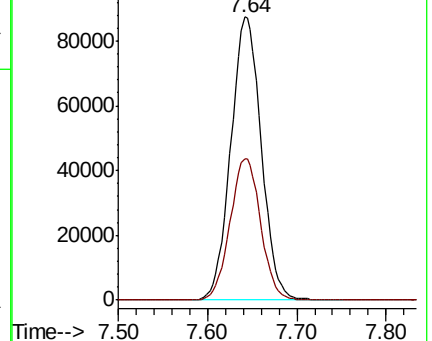
168 100

99 50.0 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN059793.D

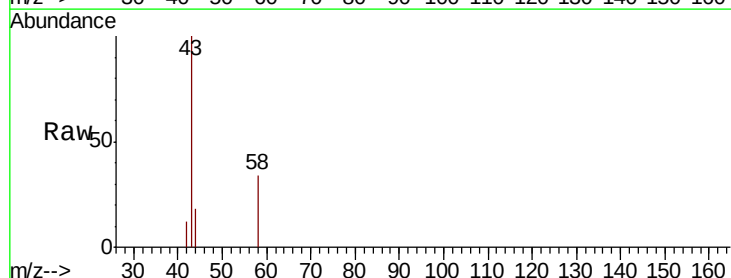
Acq: 20 Jan 2020 17:40

Tgt Ion: 43 Resp: 4141

Ion Ratio Lower Upper

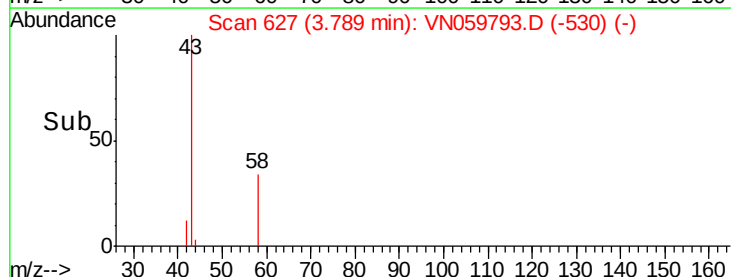
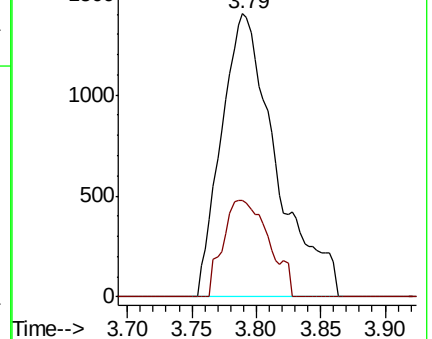
43 100

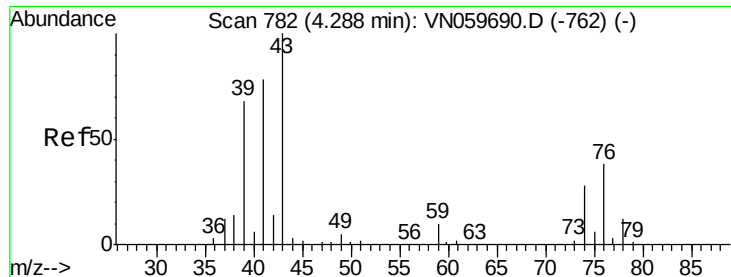
58 34.1 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

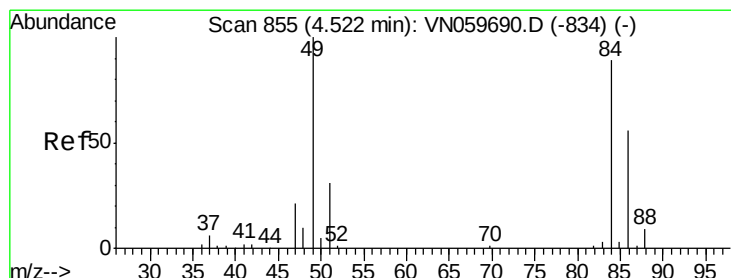
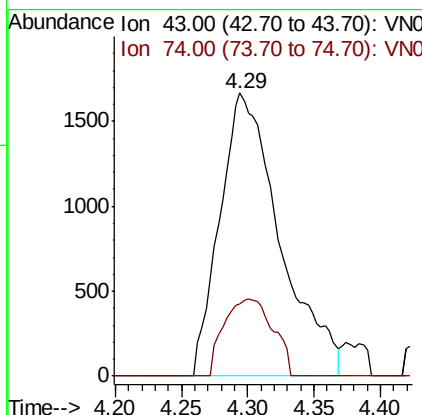
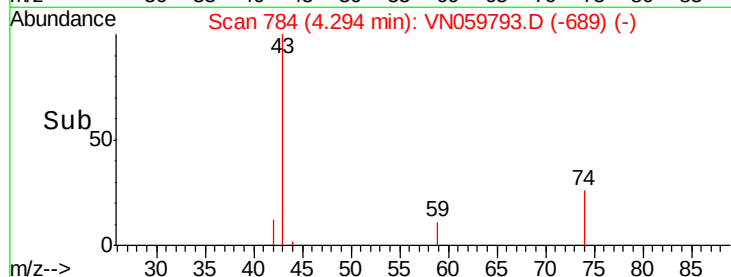
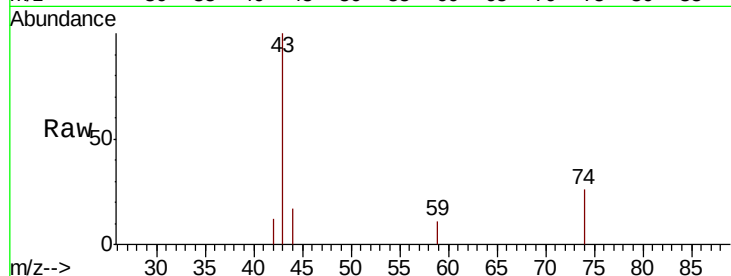




#18
Methyl Acetate
Concen: 1.958 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN059793.D
Acq: 20 Jan 2020 17:40

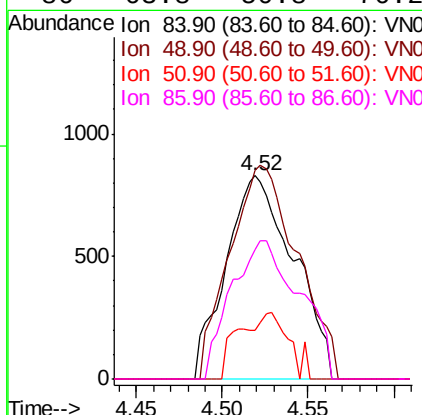
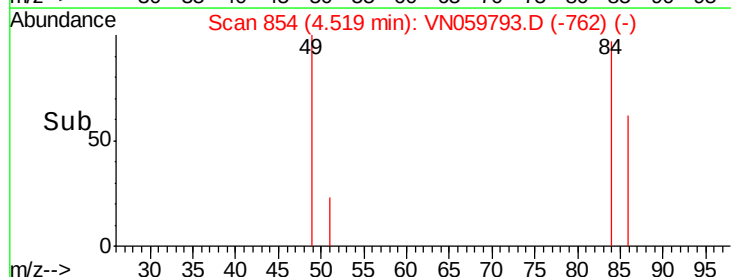
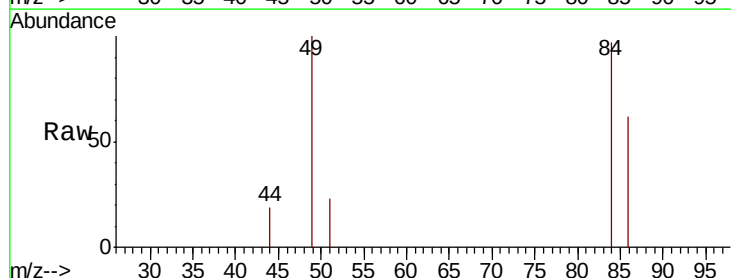
Instrument :
MSVOA_N
ClientSampled :

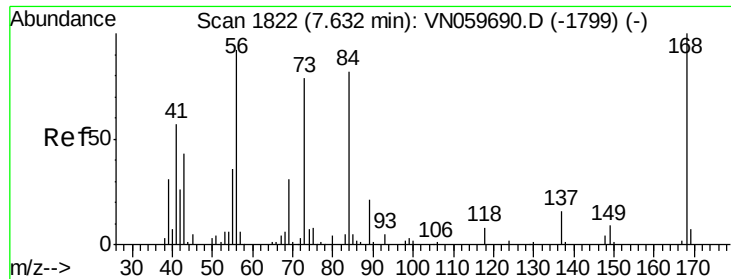
Tot Ion: 43 Resp: 5248
Ion Ratio Lower Upper
43 100
74 22.1 17.5 26.3



#20
Methylene Chloride
Concen: Below Cal
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN059793.D
Acq: 20 Jan 2020 17:40

Tgt Ion: 84 Resp: 2266
Ion Ratio Lower Upper
84 100
49 102.9 106.6 160.0#
51 24.1 31.9 47.9#
86 63.8 50.8 76.2

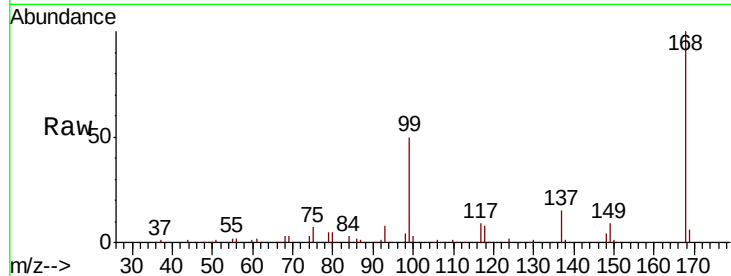




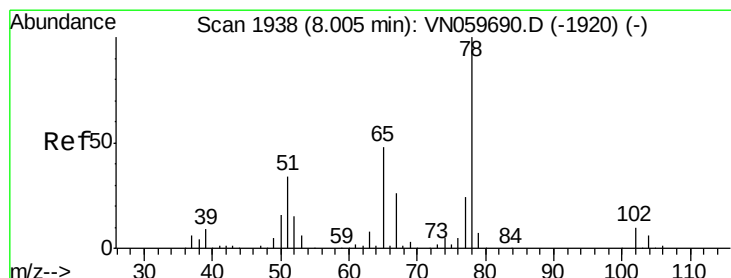
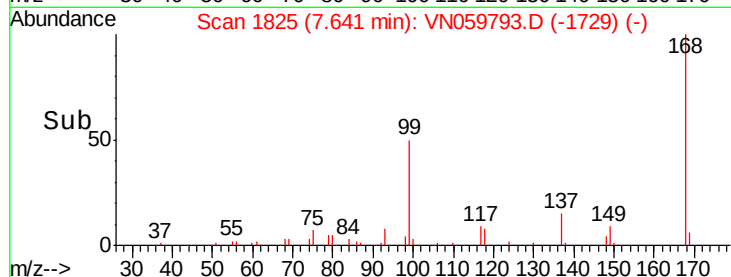
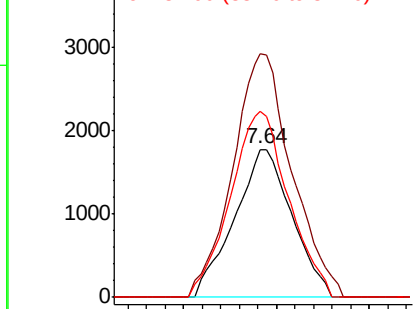
#31
Cyclohexane
Concen: 1.124 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059793.D
Acq: 20 Jan 2020 17:40

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 3818
Ion Ratio Lower Upper
56 100
69 164.4 26.5 39.7#
84 125.2 65.3 97.9#

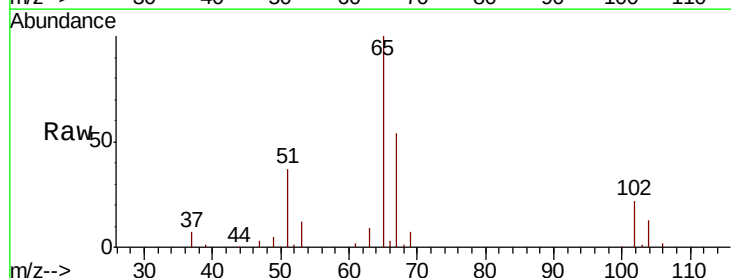


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

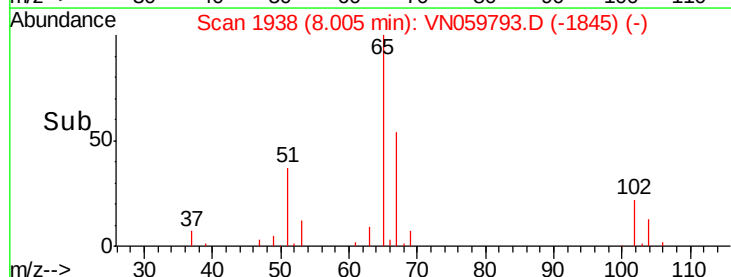
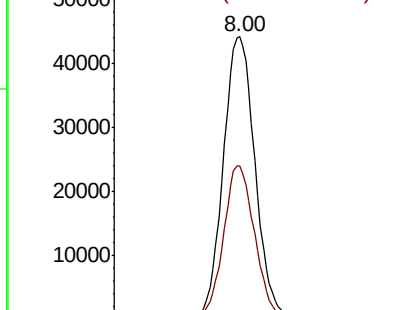


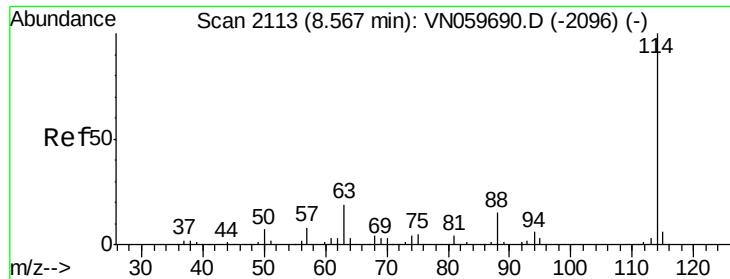
#33
1,2-Dichloroethane-d4
Concen: 46.051 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN059793.D
Acq: 20 Jan 2020 17:40

Tgt Ion: 65 Resp: 105689
Ion Ratio Lower Upper
65 100
67 53.6 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

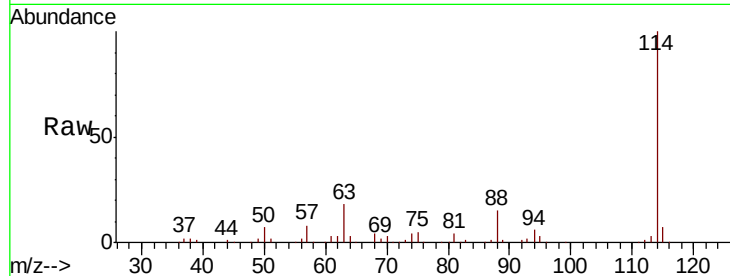




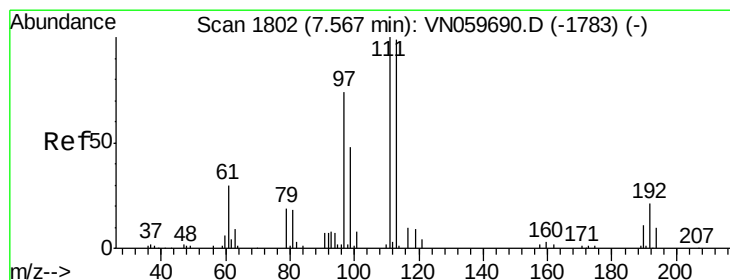
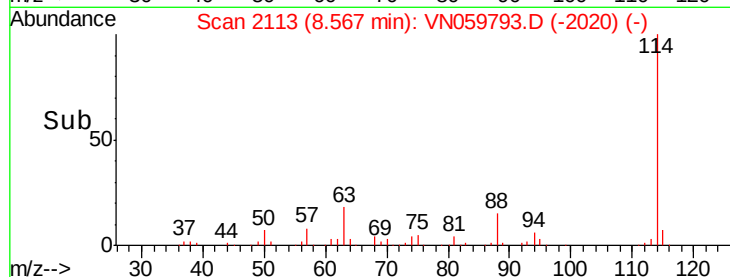
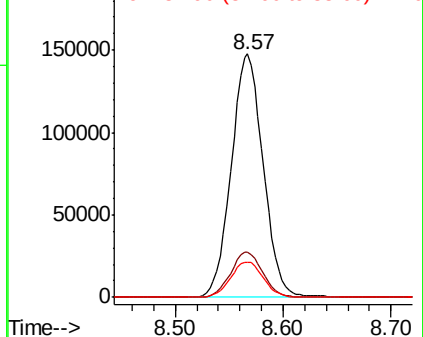
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059793.D
 Acq: 20 Jan 2020 17:40

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 303975
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 43.6
 88 14.6 0.0 31.4

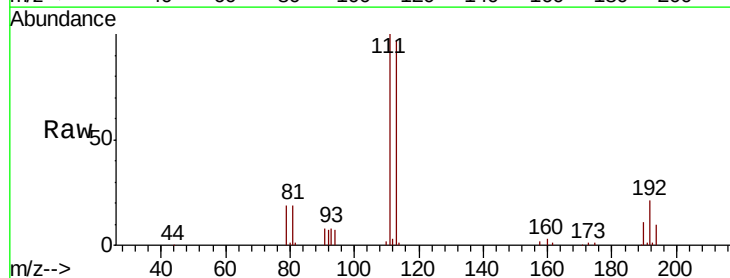


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

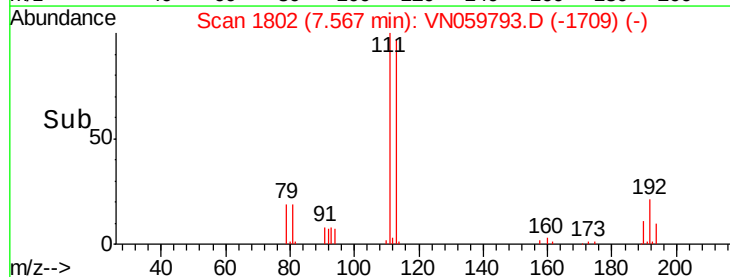
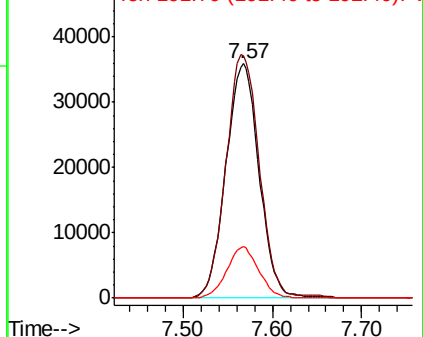


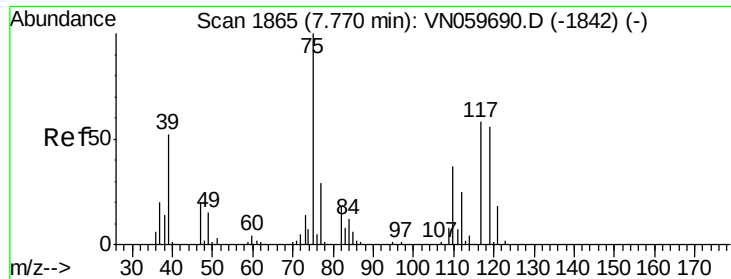
#35
 Dibromofluoromethane
 Concen: 51.095 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059793.D
 Acq: 20 Jan 2020 17:40

Tgt Ion:113 Resp: 92621
 Ion Ratio Lower Upper
 113 100
 111 104.2 83.5 125.3
 192 21.0 15.4 23.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

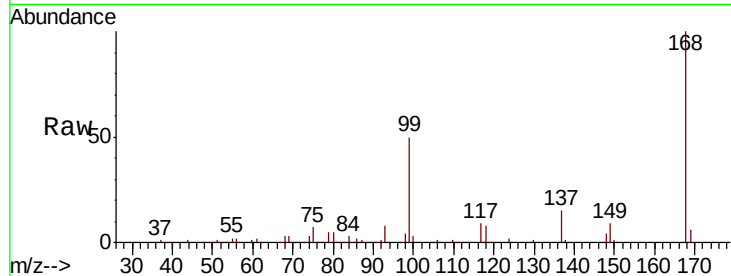




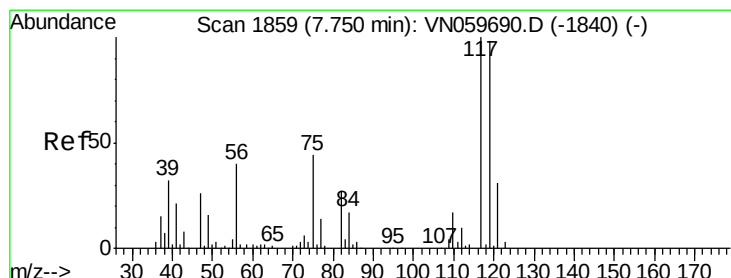
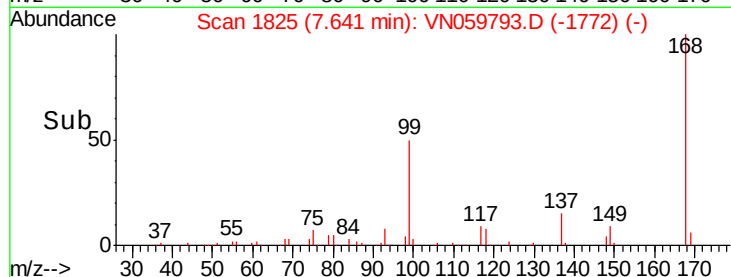
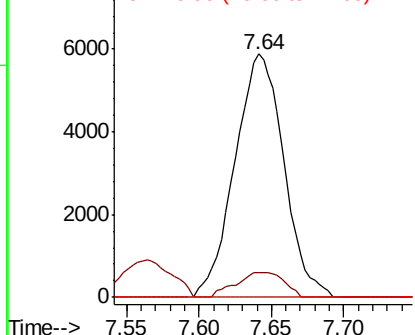
#36
 1,1-Dichloropropene
 Concen: 5.219 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059793.D
 Acq: 20 Jan 2020 17:40

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	75	Resp	13815
Ion Ratio	100	Lower	Upper
75	100		
110	9.9	16.6	49.7#
77	0.0	25.1	37.7#

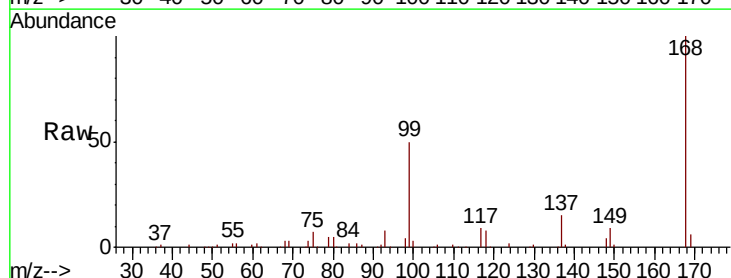


Abundance Ion 74.90 (74.60 to 75.60): VN059690.D (-1842) (-)
 Ion 109.90 (109.60 to 110.60): VN059690.D (-1842) (-)
 Ion 76.90 (76.60 to 77.60): VN059690.D (-1842) (-)

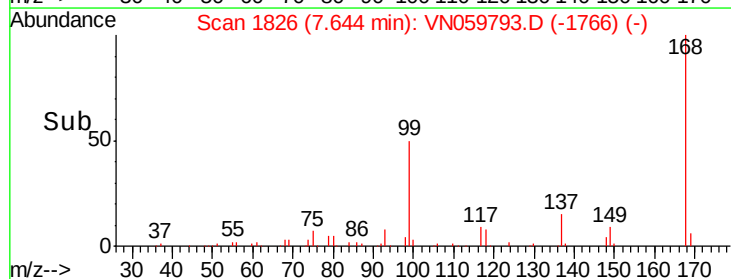
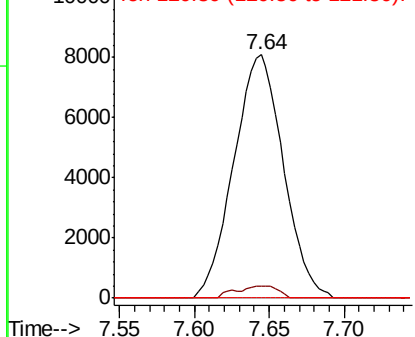


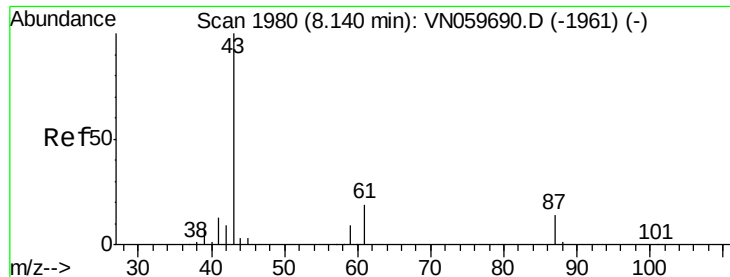
#38
 Carbon Tetrachloride
 Concen: 6.487 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059793.D
 Acq: 20 Jan 2020 17:40

Tgt Ion	117	Resp	18679
Ion Ratio	100	Lower	Upper
117	100		
119	5.0	76.5	114.7#
121	0.0	25.1	37.7#



Abundance Ion 116.80 (116.50 to 117.50): VN059690.D (-1840) (-)
 Ion 118.80 (118.50 to 119.50): VN059690.D (-1840) (-)
 Ion 120.80 (120.50 to 121.50): VN059690.D (-1840) (-)





#43

Isopropyl Acetate

Concen: 10.395 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059793.D

Acq: 20 Jan 2020 17:40

Instrument :

MSVOA_N

ClientSampled :

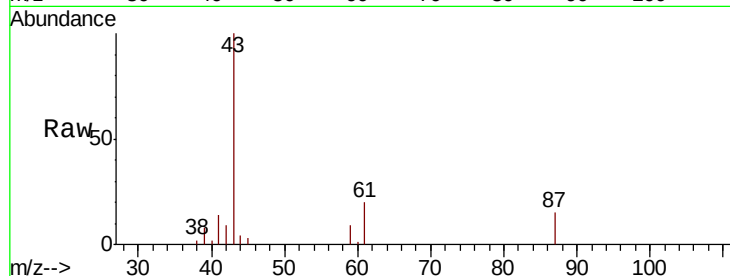
Tot Ion: 43 Resp: 44392

Ion Ratio Lower Upper

43 100

61 19.4 20.2 30.2#

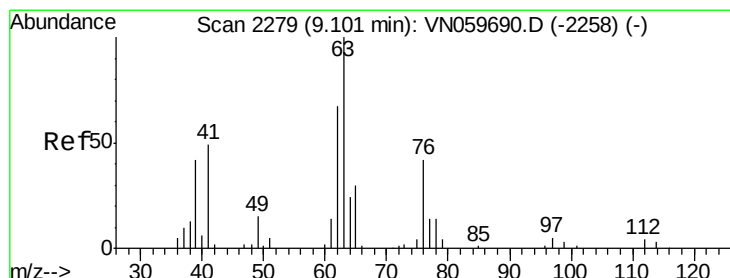
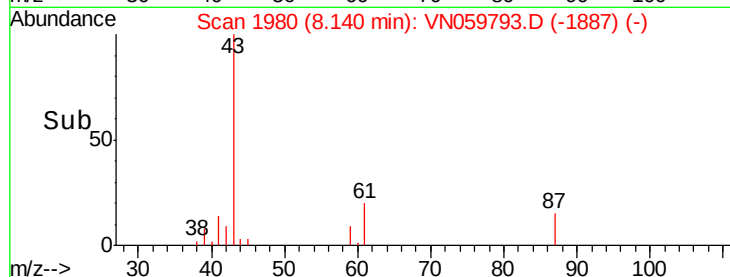
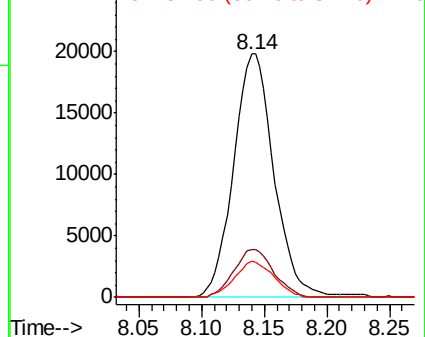
87 14.4 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.406 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059793.D

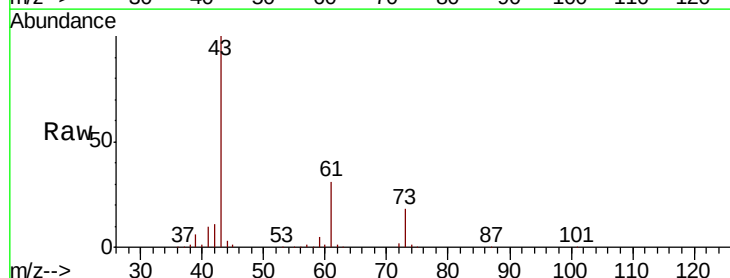
Acq: 20 Jan 2020 17:40

Tgt Ion: 63 Resp: 793

Ion Ratio Lower Upper

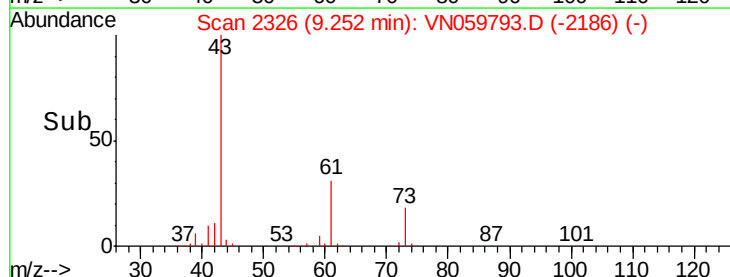
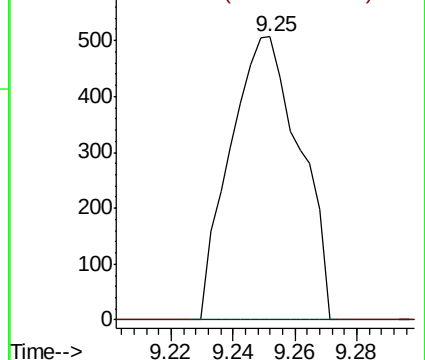
63 100

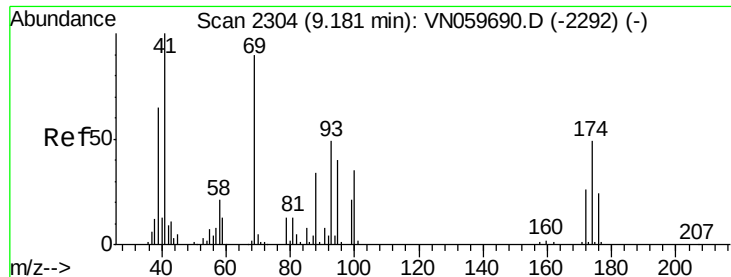
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

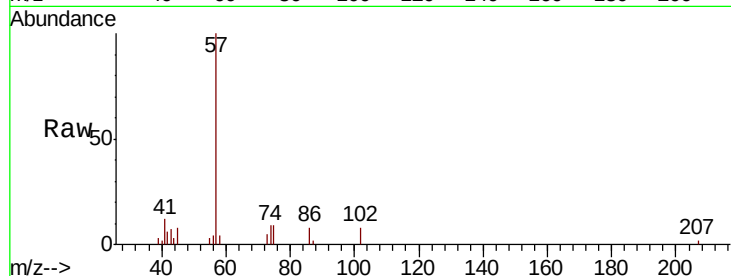




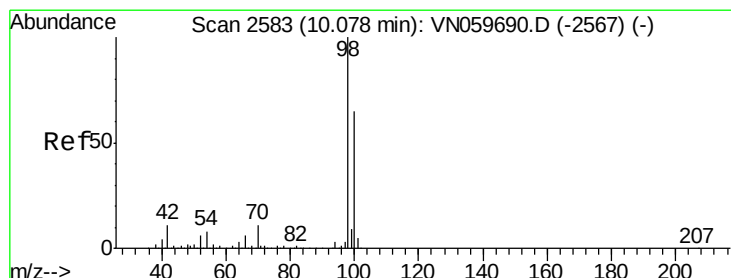
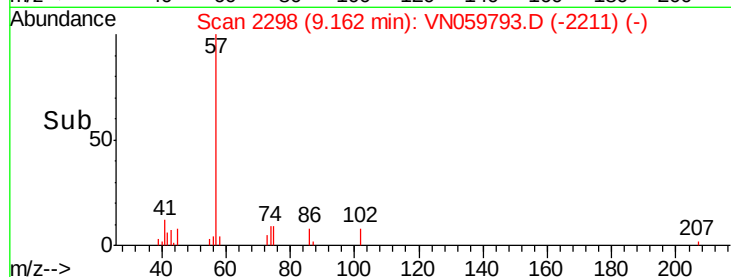
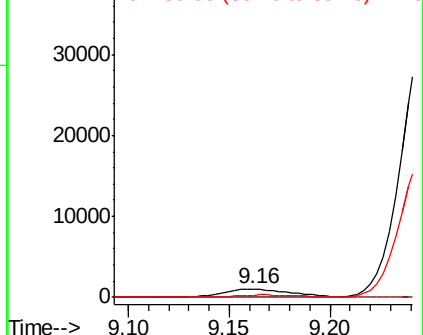
#48
Methvl methacrylate
Concen: 1.202 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN059793.D
Acq: 20 Jan 2020 17:40

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 2296
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

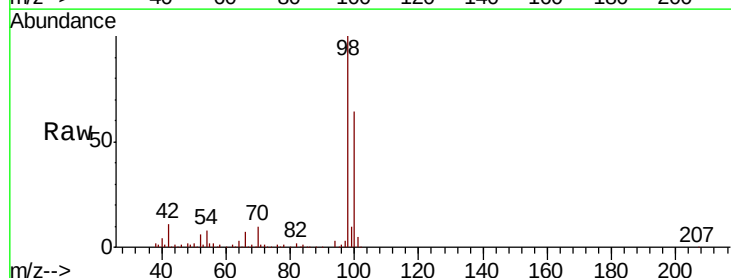


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

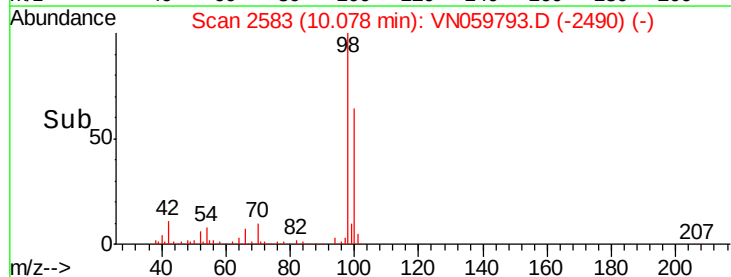
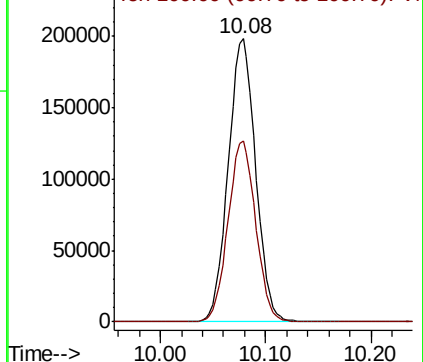


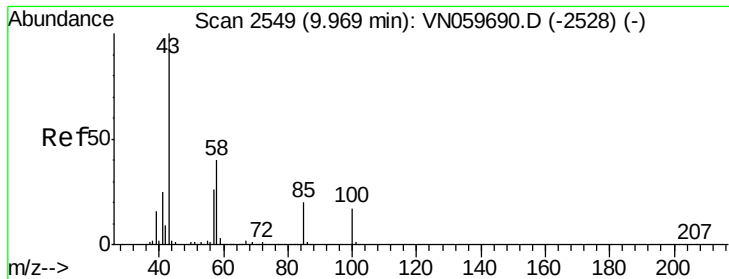
#50
Toluene-d8
Concen: 50.814 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059793.D
Acq: 20 Jan 2020 17:40

Tgt Ion: 98 Resp: 356888
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.073 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN059793.D

Acq: 20 Jan 2020 17:40

Instrument :

MSVOA_N

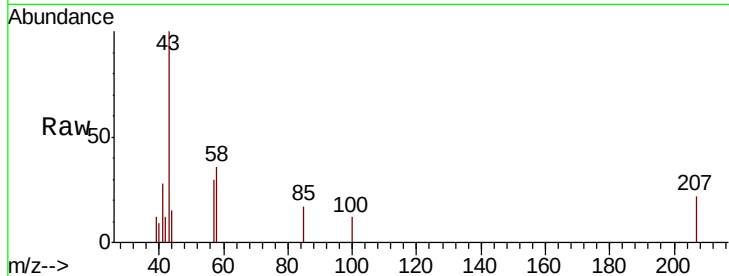
ClientSampled :

Tot Ion: 43 Resp: 2650

Ion Ratio Lower Upper

43 100

58 36.6 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

2000

1500

1000

500

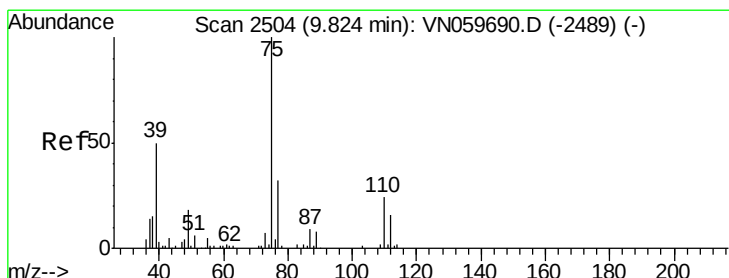
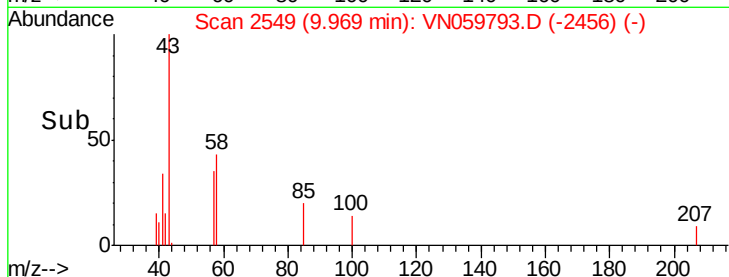
0

9.95

9.97

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.469 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN059793.D

Acq: 20 Jan 2020 17:40

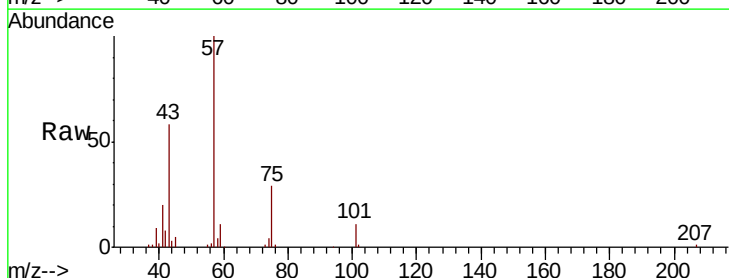
Tgt Ion: 75 Resp: 21107

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

39 32.1 46.1 69.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

15000

10000

5000

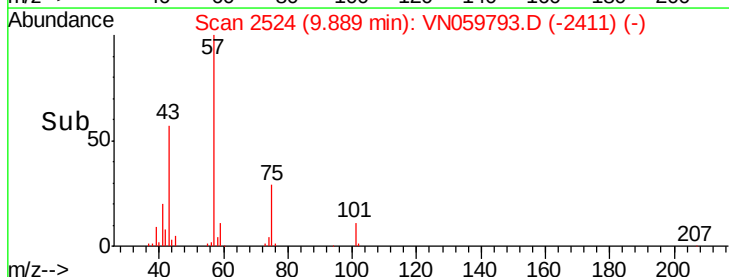
0

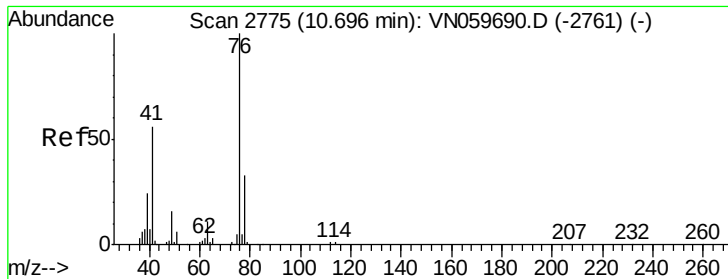
9.85

9.89

9.95

Time-->

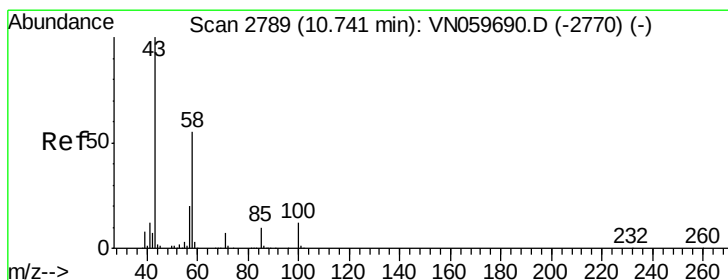
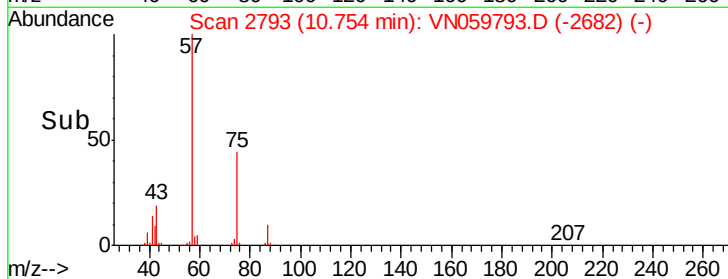
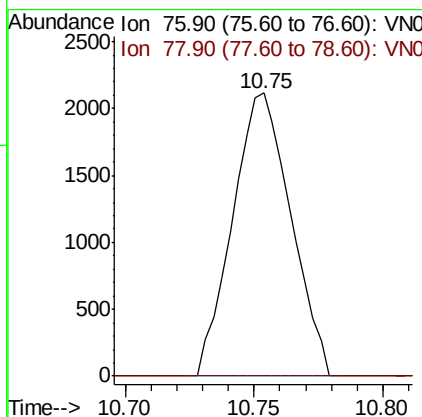
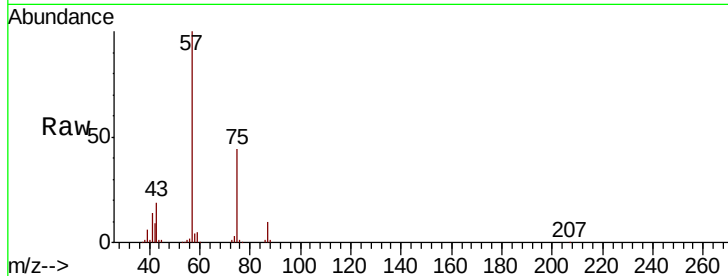




#57
 1,3-Dichloropropane
 Concen: 1.060 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059793.D
 Acq: 20 Jan 2020 17:40

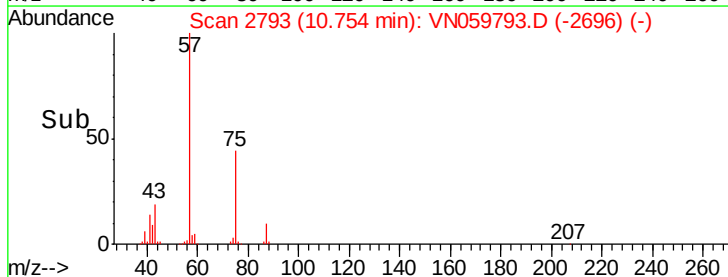
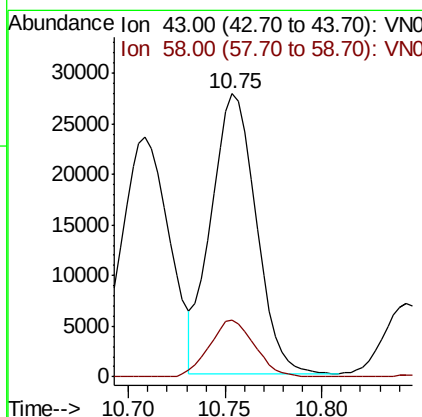
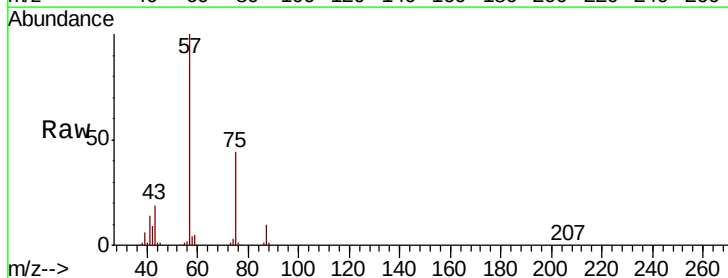
Instrument :
 MSVOA_N
 ClientSampled :

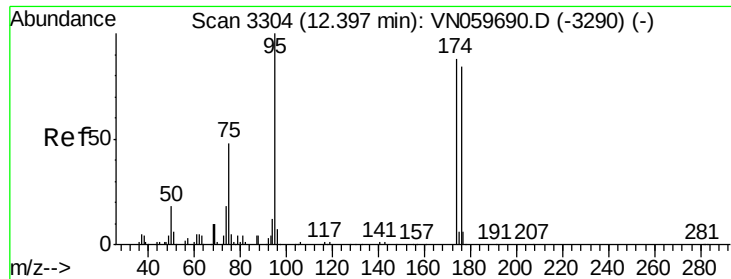
Tot Ion: 76 Resp: 3323
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 24.743 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059793.D
 Acq: 20 Jan 2020 17:40

Tgt Ion: 43 Resp: 44998
 Ion Ratio Lower Upper
 43 100
 58 20.3 25.8 77.3#

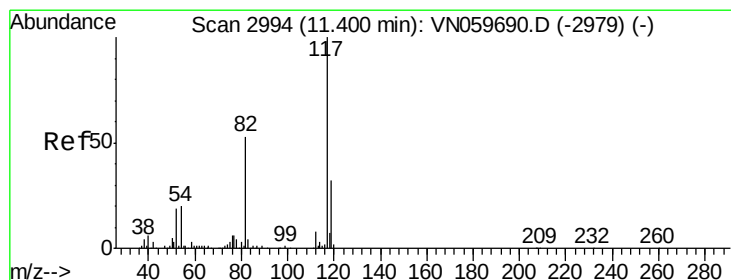
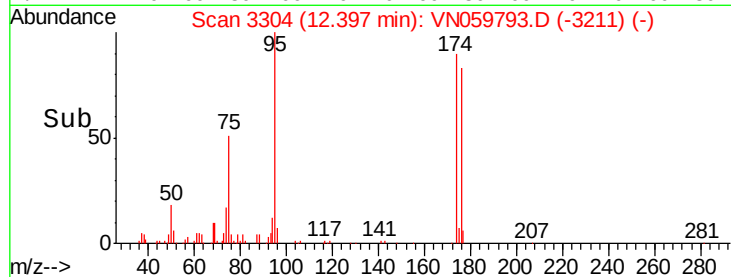
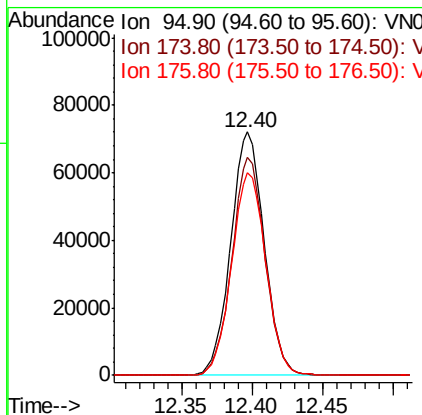
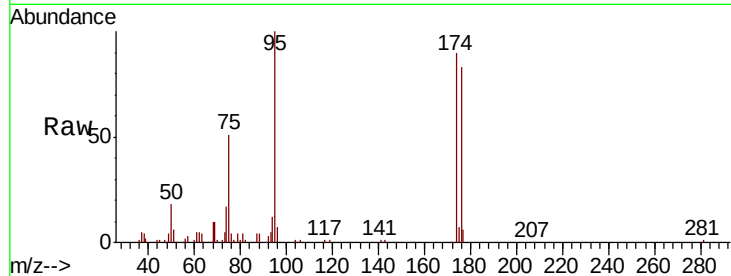




#62
4-Bromofluorobenzene
Concen: 47.314 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059793.D
Acq: 20 Jan 2020 17:40

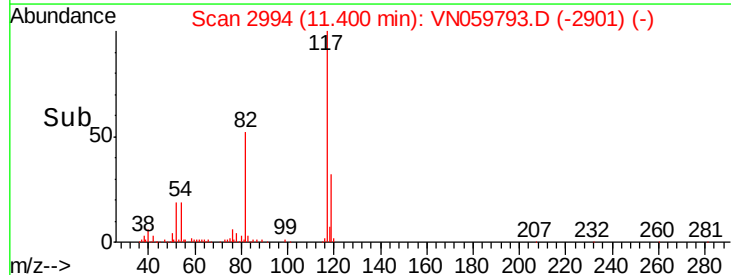
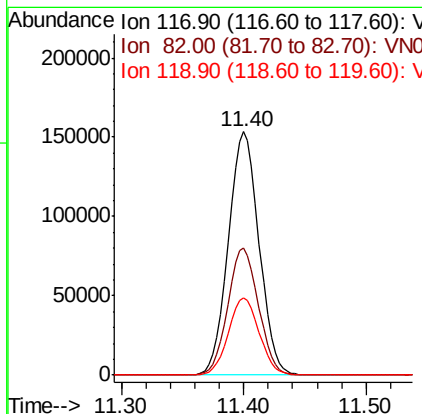
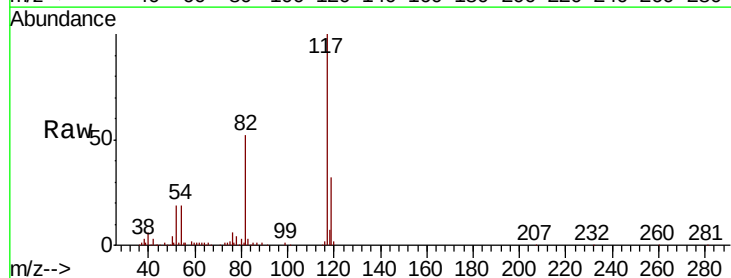
Instrument :
MSVOA_N
ClientSampled :

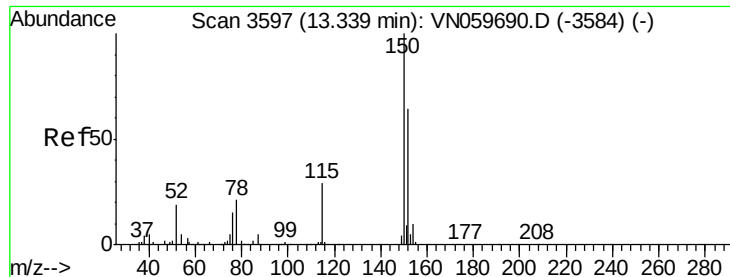
Tot Ion: 95 Resp: 119796
Ion Ratio Lower Upper
95 100
174 88.7 0.0 151.4
176 85.2 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059793.D
Acq: 20 Jan 2020 17:40

Tgt Ion: 117 Resp: 268893
Ion Ratio Lower Upper
117 100
82 52.2 45.9 68.9
119 31.7 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059793.D

Acq: 20 Jan 2020 17:40

Instrument :

MSVOA_N

ClientSampleId :

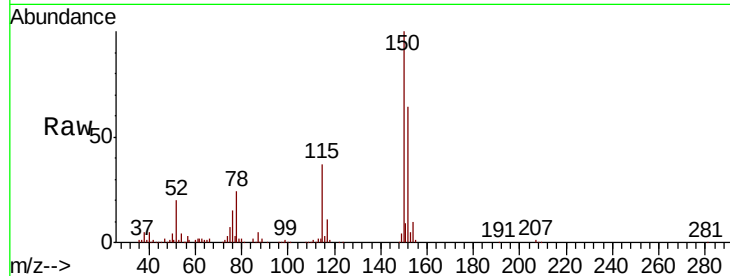
Tot Ion:152 Resp: 111347

Ion Ratio Lower Upper

152 100

115 57.2 30.3 90.9

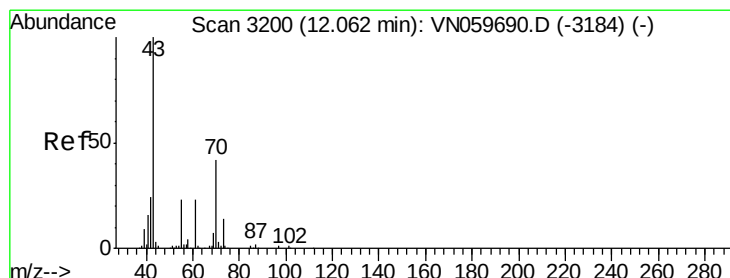
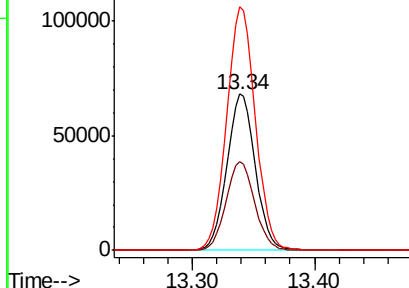
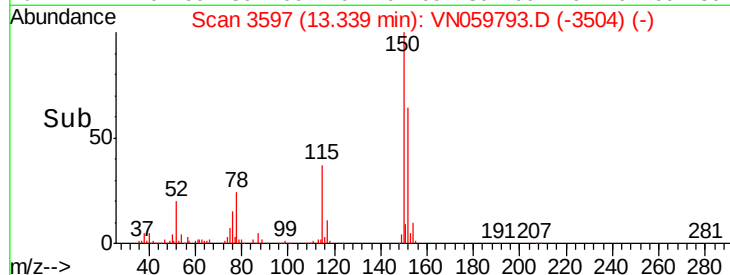
150 157.1 0.0 345.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-amil acetate

Concen: 0.725 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN059793.D

Acq: 20 Jan 2020 17:40

Tgt Ion: 43 Resp: 2297

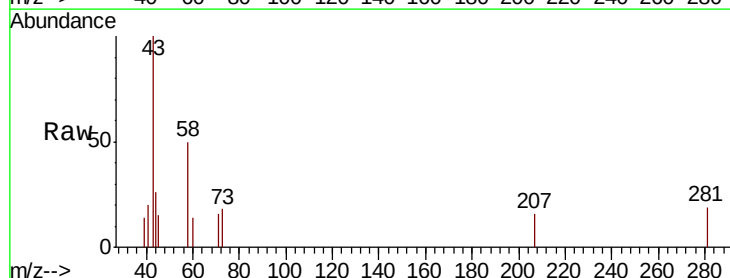
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

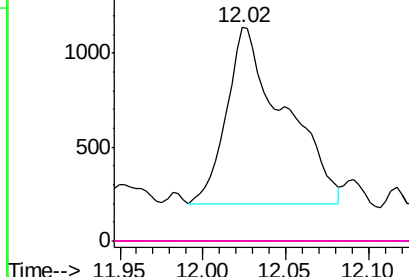
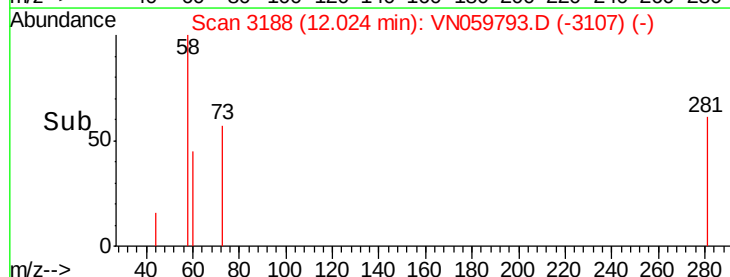


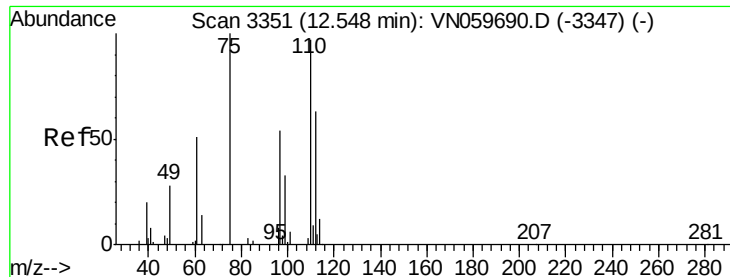
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 32.286 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059793.D

Acq: 20 Jan 2020 17:40

Instrument :

MSVOA_N

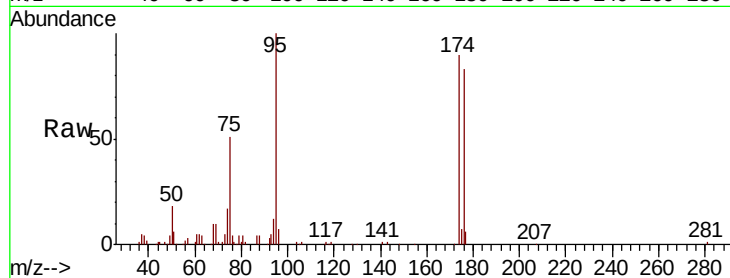
ClientSampled :

Tot Ion: 75 Resp: 60500

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN059690.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN059690.D (-3347) (-)

12.40

40000

30000

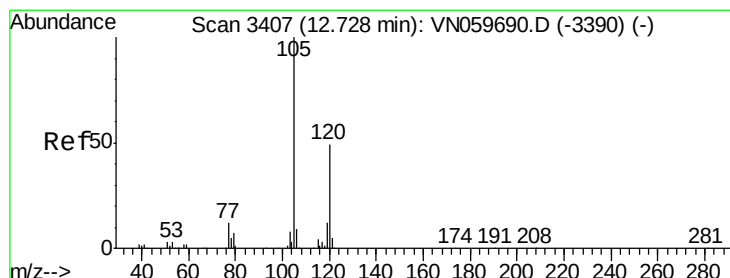
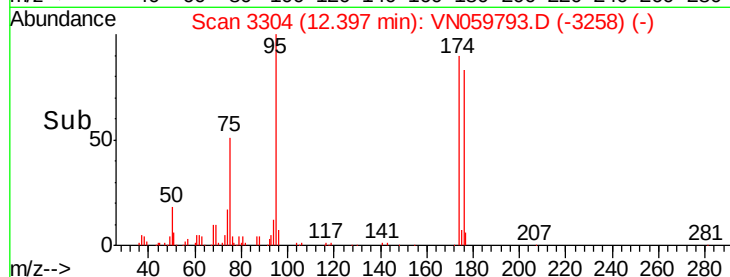
20000

10000

0

12.35 12.40 12.45

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.286 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN059793.D

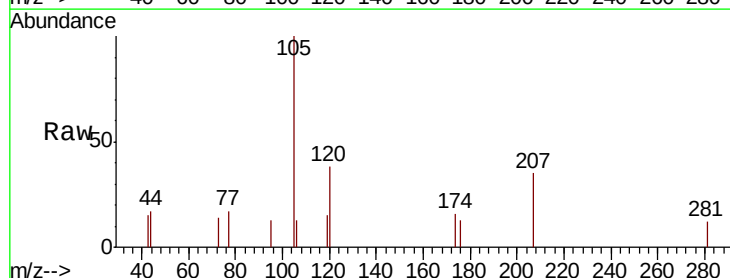
Acq: 20 Jan 2020 17:40

Tgt Ion: 105 Resp: 1966

Ion Ratio Lower Upper

105 100

120 40.3 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN059690.D (-3390) (-)

Ion 120.00 (119.70 to 120.70): VN059690.D (-3390) (-)

12.73

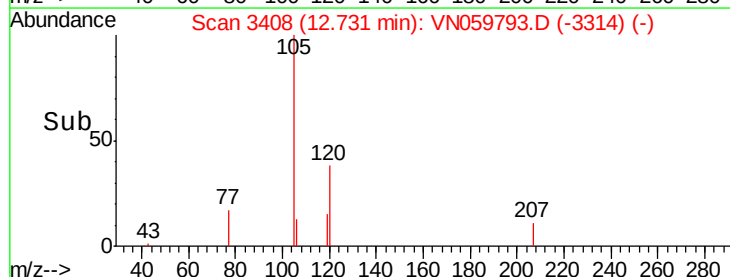
1000

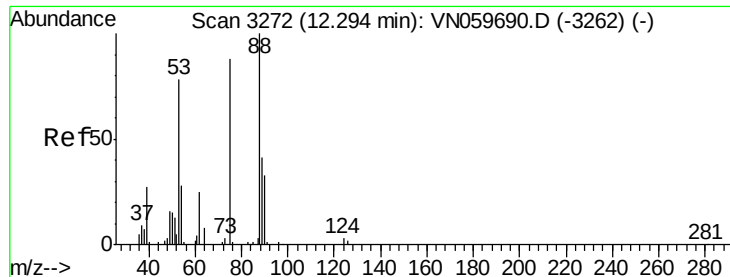
500

0

12.70 12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 69.335 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059793.D

Acq: 20 Jan 2020 17:40

Instrument :

MSVOA_N

ClientSampleId :

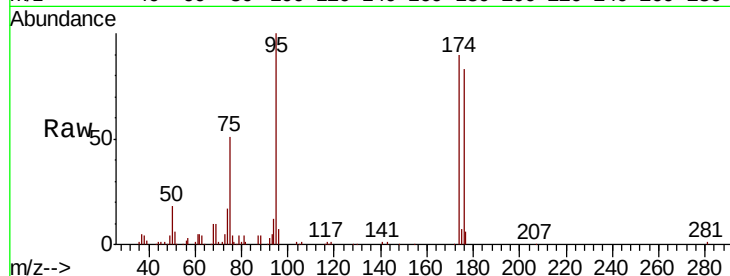
Tot Ion: 75 Resp: 60500

Ion Ratio Lower Upper

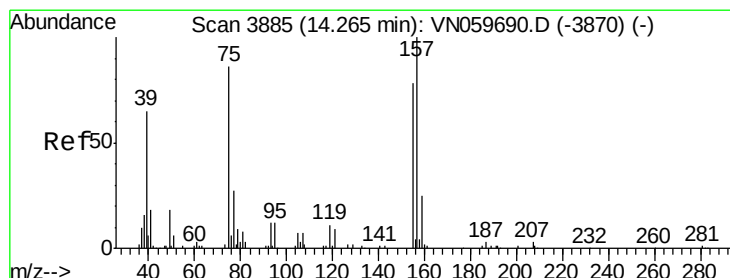
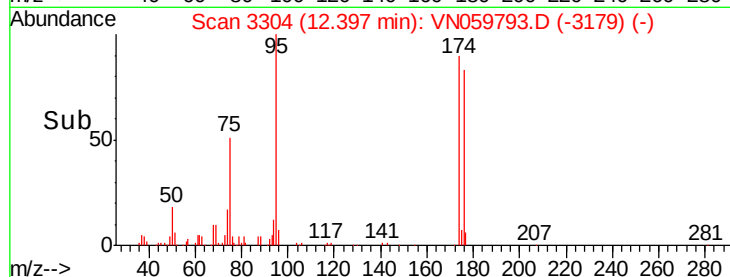
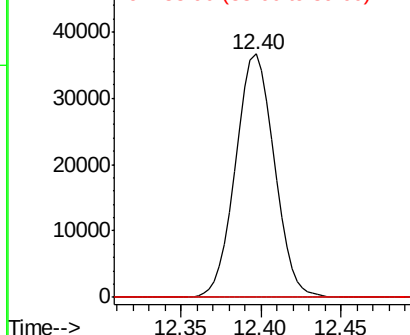
75 100

53 0.0 78.1 117.1#

89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.34 min Scan# 3909

Delta R.T. 0.08 min

Lab File: VN059793.D

Acq: 20 Jan 2020 17:40

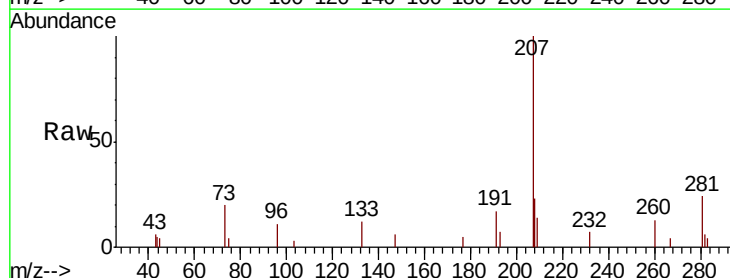
Tgt Ion: 75 Resp: 132

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V

